

Outline

- Update on recharge tool
- Review of findings
- Recommendation
- Request for input

Note: Tool has been modified to include a PEST multiplier!

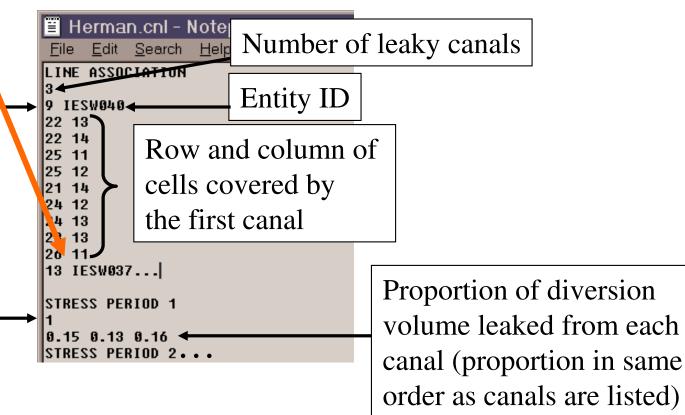
It now appears between cell count & entity name.

Number of cells that the first canal covers

Source of data

- 1 new data
- 0 no data
- -1 use previous data

.cnl file

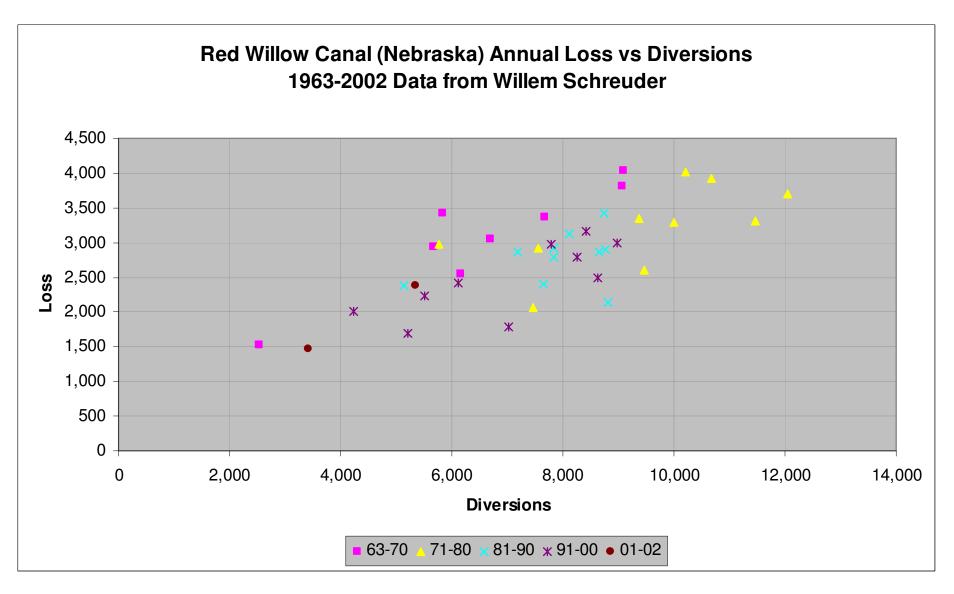


Canal seepage data

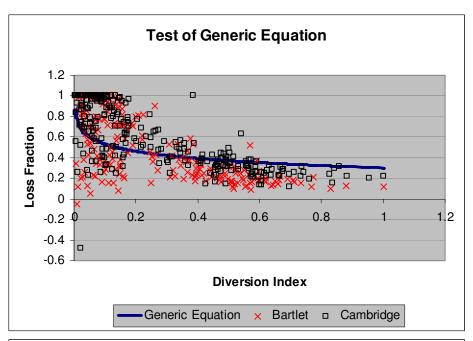
Update on Findings

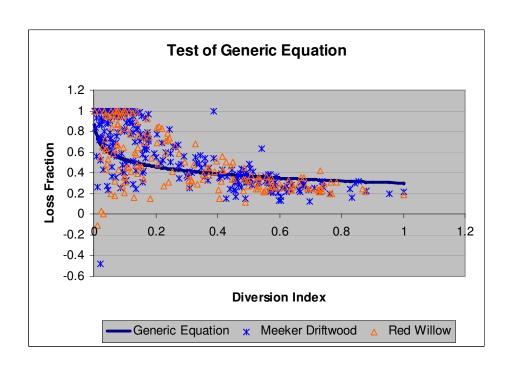
- Nebraska data (Dr. Schreuder)
- Mexico data (ESPAM 1.1)
- Aberdeen-Springfield data (Steve Howser)

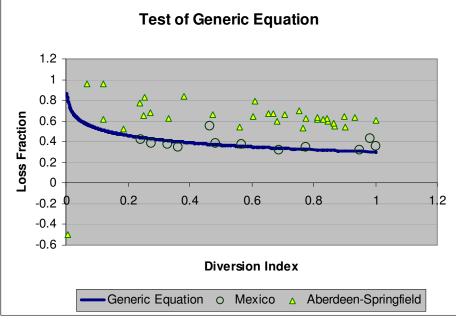
Nebraska relationships stable over multiple years



2) Generic log relationship seems to fit



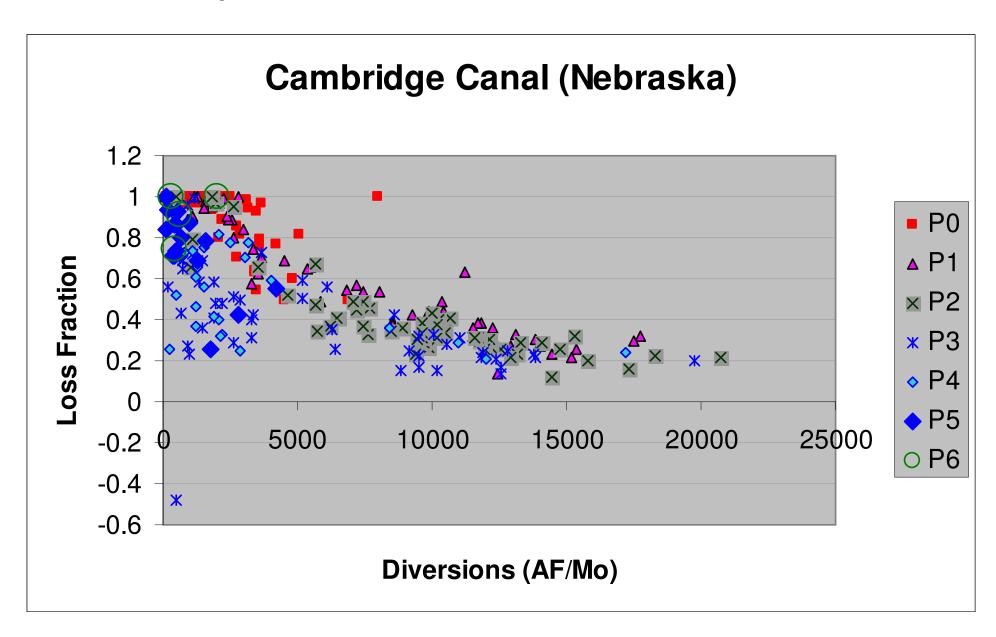




Monthly Seepage Fraction = 0.30 - 0.10 (In (Div Indx))

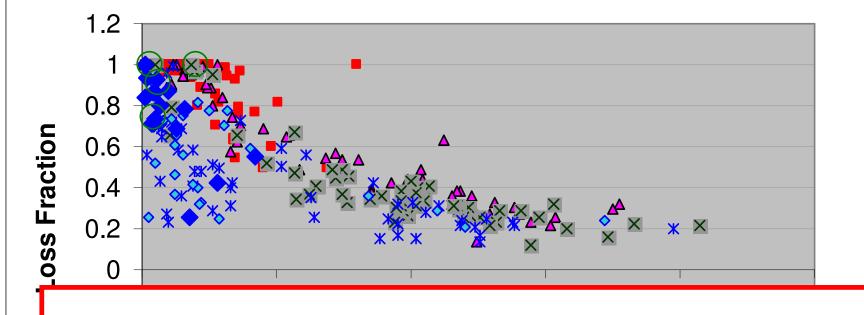
Div Indx = (monthly diversions)
(max diversions)

3) Seasonal variation



3) Seasonal variation

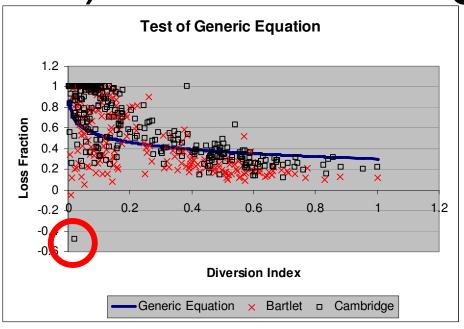


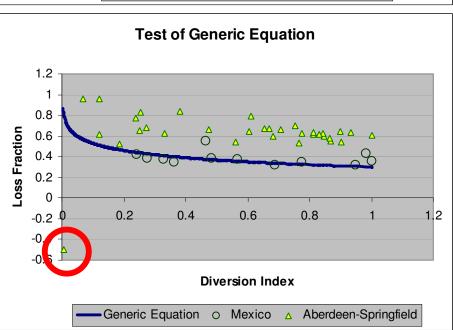


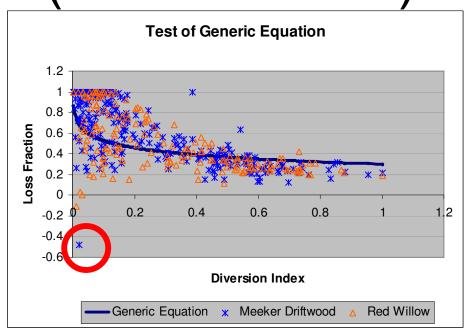
Remember "bank storage" and "wetted bulb" discussions:
We don't care about leakage but RECHARGE

× P2

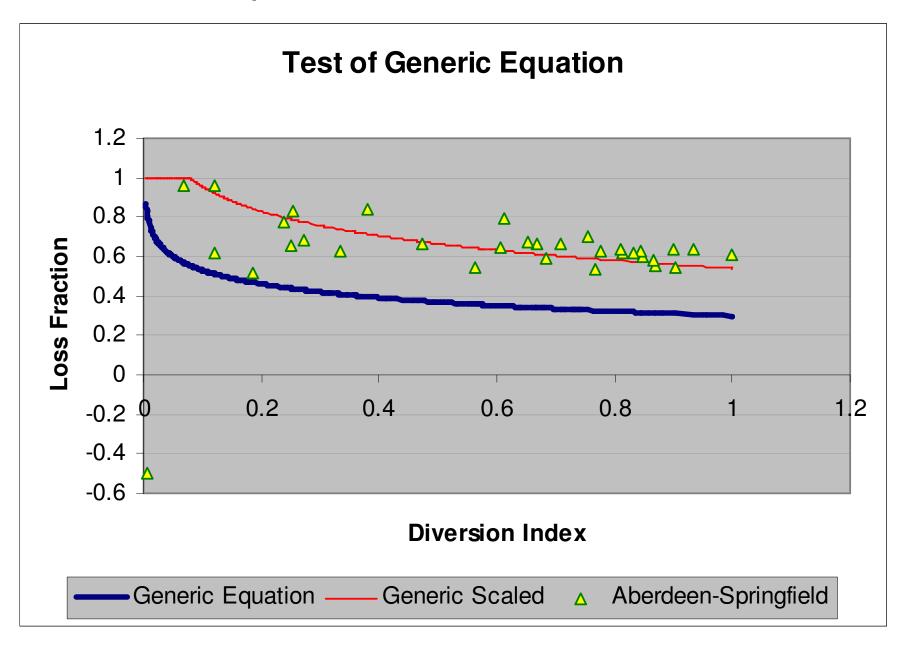
4) Bank storage (season end)







5) PESTibilities



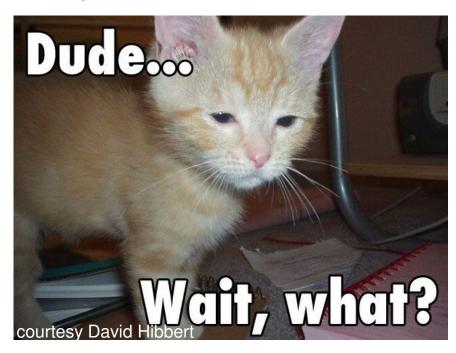
Recommendation

- Retain current recharge tool algorithms
 - PESTible
 - Change seepage algorithms w/o reprogramming
 - Guarantees no recharge in months w/o diversions
- Represent all major canals as leaky
 - IDWR is currently doing GIS work
- Use actual seepage-rate data where available, estimates elsewhere

Input requested: Which algorithm?

- Fixed percentage?
 - less opportunity for blunder
 - less likely to exceed our knowledge

- Semi-log "generic equation?"
 - seems to fit the data



(Bryce can't decide)

(End)